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(54) Title: HIGH RESOLUTION ANALYSIS OF GENETIC VARIATION WITHIN CRYPTOSPORIDIUM PARVUM

(57) Abstract: An oligonucleotide selected from at least one of the DNA sequences designated SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, and/or SEQ ID NO: 6, or annealing equivalents thereof is described. Also disclosed is a method for the genotypic and subgenotypic identification of the genus *Cryptosporidium* in a sample.

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU03/01073

**A. CLASSIFICATION OF SUBJECT MATTER**Int. Cl. <sup>7</sup>: C12Q 1/58

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

SEE ELECTRONIC DATABASE BOX BELOW

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SEE ELECTRONIC DATABASE BOX BELOW

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

[WPIDS][CA][MEDLINE][FSTA]: CRYPTOSPORID?; PCR; AMPLIF?; POLYMERASE CHAIN REACTION; GENOTYP?; IDENTIF?; VARIAT?; SCREE?; DETECT?; ANALY?; RIBOSOM; ITS; INTERNAL TRANSCRIBED SPACER

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Morgan UM et al (1999). Sequence and PCR-RFLP analysis of the internal transcribed spacers of the rDNA repeat unit in isolates of <i>Cryptosporidium</i> from different hosts. Parasitology 118:49-58.  See the entire document.	1-8
X	Tiangtip R and Jongwutiwes S (April 2002). Molecular analysis of <i>Cryptosporidium</i> species isolated from HIV-infected patients in Thailand. Tropical Medicine and International Health 7(4):357-364. Abstract only.  See the abstract.	1-8

☒ Further documents are listed in the continuation of Box C☒ See patent family annex

* Special categories of cited documents:	
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"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/AU03/01073

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Ivanova NV et al (2001). [ITS1, 5.8S and A-type ITS2 rDNA sequences from <i>Plasmodium vivax</i> and development of a method for retrospective PCR diagnosis of malaria by stained thick blood smears]. Molecular Biology (Moscow) 35(3):515-525. Abstract only.  See the abstract.	1-8
A	WO 02/22890 (A2) (GEN-PROBE INCORPORATED) 21 March 2002.  See the entire document.	1-8

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU03/01073

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member	
WO	02/22890	AU	1181402	CA	2419154